

ACKNOWLEDGEMENT

I am expressing my gratitude to Dr. Biswanath Bhattacharyya, Department of Mathematics, University of North Bengal, for his constant guidance, support, fruitful criticism and valuable suggestions throughout the progress of the work.

I like to express my profound gratitude to Prof. S. V. Lawande, Emeritus Professor, Department of Physics, University of Pune, and Prof. P. Mulser, Head, Theoretische Quantenelektronik, Institut für Angewandte Physik der Technischen Universität Darmstadt, for their valuable suggestions and collaboration work.

I gratefully acknowledge the support extended to me by Prof. S. P. Paul, Prof. S. Karanjai, Lt. Dr. S. K. Bishnu and Dr. M. Ghosh, who were the Head of the Department of Mathematics, University of North Bengal, at different times during my work.

I like to take this opportunity to express my sincere thanks to Dr. Prosanta Chaudhury, Department of Mathematics, University of North Bengal, for his valuable suggestions at different stages of this work.

I record my indebtedness to my parents who are the main inspiration behind my work and who extended all kinds of support for this.

I like to express thanks to all the members of Mathematics Department who helped me during my work.

Finally, thanks are due to Department of Science and Technology, Government of India, for awarding me a Fellowship to carry on the research work.

N.B.U., Darjeeling.

21.8.2000.

Urmi Sanyal
21.8.2000
Urmi Sanyal